

Turbidity meter AL450T-IR

with infra-red light source (EN ISO 7027)



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Highlights

- Meets EN ISO 7027
- Automatic overall range adjustment with Standard-Set T-Cal
- Auto-ranging
- High accuracy
- Laboratory and mobile use
- RS 232 interface
- Storage for up to 1000 data-sets
- Real-time clock
- Waterproof sample chamber and housing

Turbidity is measured according to EN ISO 7027 by nephelometric means (90° scattered light). The infra-red light-source permits measurement of coloured and colour-free samples.

The automatic measurement range detection facility (Autorange) enables direct turbidity measurement from 0.01 to 1100 NTU with an accuracy of $\pm 2\%$ up to 500 NTU and $\pm 5\%$ thereafter.

A large graphic display, a choice of several different languages and user-friendly operating instructions make the device extremely easy to use.

Software updates (for example: languages) can be downloaded free of charge from our website www.aqualytic.de

Technical data

Principle	nephelometric (90° scattered light)
Light source	IR-LED (860 nm)
Keypad	conditional acid and solvent resistant; membrane switch keypad with audible feedback
Auto – Off	automatic switch off approx. 20 minutes after last key press
Display	Graphic-Display
Update	Software update via Internet
Clock	real time clock
Memory capacity	1000 data sets with date, time and registration number
Sample volume	approx. 12 ml
Range	0.01 – 1100 NTU (Auto range)
Resolution (NTU)	0.01 from 0.01 - 9.99 0.1 NTU from 10.0 - 99.9 1 NTU from 100 - 1100
Accuracy (NTU)	± 2 % of reading or 0.01 (0 - 500) ± 5 % of reading (500 - 1100)
Ambient conditions	temperature: 5-40°C at 30-90% relative humidity (non condensing)
Interface	RS232 for printer and PC-connection; 9-pin D-sub-mail connector; data format ASCII
Power supply	7 NiCd rechargeable batteries (Type AA/Mignon with 1100mAh); wall plug mains adapter (Input: 100-230V, 50-60Hz; Output: 15V;530mA) and Lithium battery (CR 2032, 3V) for data storage and real time clock.
Weight (instrument)	approx. 1000 g including batteries and power pack
Dimensions (L x W x H)	approx. 265 x 195 x 70 mm
Specification	meets ISO 7027
Approval	CE

Delivery Content

The AL450T-IR is supplied complete and ready-to-use incl. 1 Set Turbidity Standards T-CAL, 7 rechargeable batteries, mains charger, 100-240 V, 1 lithium battery, PC connection cable, 4 x 24 mm cuvettes, instruction manual and warranty sheet in a plastic carrying case with water resistance foam.

Order code: 4194000-B

Order code: 4194000 (as above, but without lithium battery)

Accessories

Set of 12 sample cuvettes with black lid, height 55 mm, ø 24 mm	197655
Cleaning cloth for cuvettes	197635
Rubber seal cap, black for interface and power plug-in	19801716
Sample chamber lid, black	19801119
Mains charger, 100 - 240 V, 50 - 60 Hz, with international adapters	193010
Universal adapter for sockets, international	192065
Connection cable connection to PC, serial 9-pins	198198
Akku AA Mignon, 1100 mAh (7 pc.)	1950020
Lithium battery	1950017
Formazin Stock Solution (4000 NTU), 100 ml	1941 41
Formazin Stock Solution (4000 NTU), 250 ml	194142
Set Turbidity Standards T-CAL (< 0.1, 20, 200, 800 NTU)	4194150
Paper printer	198077

